

Applic. No. 10/762,151  
Amdt. dated March 14, 2008  
Reply to Office action of December 14, 2007

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Claim Amendments

This listing of the claims will replace all prior versions,  
and listings, of claims in the application:

Claim 1 (currently amended): A honeycomb body, comprising:

a casing tube;

a honeycomb structure connected to said casing tube and  
defining an axial portion between said casing tube and said  
honeycomb structure;

an inner sleeve being a sheet metal foil at least partially  
surrounding said honeycomb structure;

an outer sleeve being a sheet metal foil at least partially  
surrounding said honeycomb structure;

said inner and outer sleeves being disposed in said axial  
portion;

said sleeves having structures for compensation of changes in  
circumference of said honeycomb structure, said structures of

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said inner sleeve and said structures of said outer sleeve  
being configured for engaging in one another and adjacent  
structures of said sleeves ~~bearing~~ being configured for at  
least partially ~~against~~ contacting one another, thereby  
defining a zone of friction between said inner sleeve and said  
outer sleeve and impeding a relative movement of said sleeves  
in relation to one another; and

a plurality of joining locations adjacently interconnecting  
said honeycomb structure, said inner and outer sleeves and  
said casing tube to form an open spring/damper system from at  
least one of said sleeves.

Claim 2 (original): The honeycomb body according to claim 1,  
wherein said honeycomb structure is connected to said casing  
tube by technical joining.

Claim 3 (original): The honeycomb body according to claim 1,  
wherein at least one of said sleeves has structures for  
compensation of changes in circumference of said honeycomb  
structure.

Claim 4 (cancelled).

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Claim 5 (original): The honeycomb body according to claim 3, wherein said structures are formed by corrugations in said sleeves, and adjacent joining locations of at least two of said structures are spaced apart from one another.

Claim 6 (original): The honeycomb body according to claim 1, wherein said inner sleeve is connected to said honeycomb structure over an entire circumference of said honeycomb structure.

Claim 7 (original): The honeycomb body according to claim 1, wherein said inner sleeve is brazed to said honeycomb structure over an entire circumference of said honeycomb structure.

Claim 8 (original): The honeycomb body according to claim 1, wherein said plurality of joining locations include inner joining locations between said inner and outer sleeves and outer joining locations between said outer sleeve and said casing tube, being distributed uniformly over a circumference of said honeycomb structure, and directly adjacent inner and outer joining locations are mutually offset in circumferential direction.

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Claim 9 (original): The honeycomb body according to claim 1, wherein at least one of said inner and outer sleeves has a sleeve thickness smaller than 0.3 mm.

Claim 10 (original): The honeycomb body according to claim 1, wherein at least one of said inner and outer sleeves has a sleeve thickness smaller than 0.2 mm.

Claim 11 (previously presented): The honeycomb body according to claim 8, wherein at least one of said inner locations together and outer joining locations together have an extent in circumferential direction of less than 30% of a circumference of said honeycomb structure.

Claim 12 (previously presented): The honeycomb body according to claim 8, wherein at least one of said inner locations together and outer joining locations together have an extent in circumferential direction of less than 20% of a circumference of said honeycomb structure.

Claim 13 (original): The honeycomb body according to claim 8, wherein said inner and outer joining locations are mutually offset in axial direction of said honeycomb structure.

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Claim 14 (original): The honeycomb body according to claim 1, wherein said axial portion has a length of between 40% and 100% of an axial dimension of the honeycomb body.

Claim 15 (original): The honeycomb body according to claim 1, wherein said honeycomb structure has sheet metal layers being at least partially structured to form channels through which an exhaust gas can flow.

Claim 16 (original): The honeycomb body according to claim 15, wherein said honeycomb structure has a channel density of at least 800 cpsi, and said sheet metal layers have sheets with a sheet thickness smaller than 0.025 mm.

Claim 17 (original): The honeycomb body according to claim 3, wherein at least one of said joining locations and said structures seal-off an annular gap between said casing tube and said honeycomb structure for an exhaust gas flowing through the honeycomb body.

Claim 18 (original): The honeycomb body according to claim 1, wherein at least one of said inner sleeve and said outer sleeve is one of at least two mutually axially spaced apart sleeves.

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Claim 19 (original): The honeycomb body according to claim 1,  
wherein at least one of said inner sleeve and said outer  
sleeve has at least one microstructure.

Claim 20 (currently amended): A catalyst carrier body,  
comprising:

a casing tube;

a honeycomb structure for carrying catalytic material for  
purifying an exhaust gas of an internal combustion engine,  
said honeycomb structure connected to said casing tube and  
defining an axial portion between said casing tube and said  
honeycomb structure;

an inner sleeve being a sheet metal foil at least partially  
surrounding said honeycomb structure;

an outer sleeve being a sheet metal foil at least partially  
surrounding said honeycomb structure;

said inner and outer sleeves being disposed in said axial  
portion;

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said sleeves having structures for compensation of changes in circumference of said honeycomb structure, and said structures of said inner sleeve and said structures of said outer sleeve being configured for engaging in one another and adjacent structures of said sleeves ~~bearing~~ being configured for at least partially ~~against~~ contacting one another, thereby defining a zone of friction between said inner sleeve and said outer sleeve and impeding a relative movement of said sleeves in relation to one another; and

a plurality of joining locations adjacently interconnecting said honeycomb structure, said inner and outer sleeves and said casing tube to form an open spring/damper system from at least one of said sleeves.

Claim 21 (withdrawn): A method for producing a honeycomb body according to claim 1, which comprises the following steps:

producing sleeve blanks;

forming inner joining locations between the sleeve blanks;

winding the sleeve blanks into at least one inner sleeve and at least one outer sleeve;

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connecting ends of the sleeve blanks;

introducing the at least one inner sleeve and the at least one  
outer sleeve into a casing tube;

introducing a honeycomb structure into the inner sleeve; and

forming other joining locations interconnecting the honeycomb  
structure, the at least one inner sleeve, the at least one  
outer sleeve and the casing tube to form an open spring/damper  
system from at least one of the sleeves.

Claim 22 (withdrawn): The method according to claim 21, which  
further comprises initially jointly calibrating at least two  
of the sleeve blanks before the step of forming the inner  
joining locations.

Claim 23 (withdrawn): The method according to claim 21, which  
further comprises carrying out the step of forming the inner  
joining locations with a welding method.

Claim 24 (withdrawn): The method according to claim 21, which  
further comprises carrying out the step of forming the inner  
joining locations with a welding method selected from the  
group consisting of rolled-seam welding and laser welding.



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Claim 25 (withdrawn): The method according to claim 21, which further comprises carrying out the step of connecting the ends of the sleeve blanks with a welding method.

Claim 26 (withdrawn): The method according to claim 25, which further comprises selecting the welding method from the group consisting of rolled-seam welding and laser welding.

Claim 27 (withdrawn): The method according to claim 21, which further comprises providing the at least one outer sleeve with brazing foil, before introducing the at least one outer sleeve into the casing tube, for the formation of outer joining locations.

Claim 28 (withdrawn): The method according to claim 21, which further comprises providing the periphery of the honeycomb structure with a passivation, starting from one end face, through an offset, before the step of introducing the honeycomb structure into the inner sleeve.

Claim 29 (withdrawn): The method according to claim 21, which further comprises subsequently bringing the joined-together honeycomb structure, casing tube, at least one inner sleeve and at least one outer sleeve into contact with at least one of an

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adhesive and a brazing powder, and then producing at least one of at least one tie-up and at least one outer joining location by thermal treatment.

Claim 30 (withdrawn): The method according to claim 29, which further comprises carrying out the step of bringing the joined-together honeycomb structure, casing tube, at least one inner sleeve and at least one outer sleeve into contact, from one end face of the honeycomb structure.

Claim 31 (withdrawn): The method according to claim 29, which further comprises carrying out the thermal treatment as a high-temperature vacuum brazing process.

Claim 32 (withdrawn): A method for producing a catalyst carrier body according to claim 20, which comprises the following steps:

producing sleeve blanks;

forming inner joining locations between the sleeve blanks;

winding the sleeve blanks into at least one inner sleeve and at least one outer sleeve;

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connecting ends of the sleeve blanks;

introducing the at least one inner sleeve and the at least one  
outer sleeve into a casing tube;

introducing a honeycomb structure, for carrying catalytic  
material for purifying an exhaust gas of an internal  
combustion engine, into the inner sleeve; and

forming other joining locations interconnecting the honeycomb  
structure, the at least one inner sleeve, the at least one  
outer sleeve and the casing tube to form an open spring/damper  
system from at least one of the sleeves.